Author Index to Volume 25 (1993)

Altintas, A., 105
Andreev, A.T., 391
Ankiewicz, A., 147
Arnaud, J., 509
Arutunian, E.A., 695

Baida Lu, 275
Bambha, R., S965
Bangwei Cai, 275
Barron, C.C., S885
Bashaw, M.C., S611
Bayon, J.-F., 501
Beecham, P.M., 483
Beidoun, A., 317
Belendez, A., 139
Bell, T.C., 483
Bergamasco, G., 271, 859
Bethel, J.W., 483
Bhar, G.C., 663
Bird, T.E., S965
Bollig, B., S865
Brady, D., S597
Burke, S.V., 771
Butcher, R.J., 79

Calvelli, P., 271, 859
Carroll, J.E., 37
Casperson, L.W., 369
Cavailles, J.A., S965
Cecchetti, W., 271
Cerullo, G., 489
Chatterjee, U.K., 113
Chow, W.W., 675
Chung, Y., S899
Chung J Kuo, 761
Coldren, L.A., S885, S899
Cvetkovic, S.R., 845

Dagli, N., S899
Danilov, S.N., 705
Daryanani, S.L., 123
Das, T.K., 663
David, G., S865
Davids, D.A., 451
De Silvestri, S., 489
Deb, P., 113
Dejie Li, 255
Delevaque, E., 501
Dimov, S.S., 545
Dingsan Gao, 467, 745
Donetsky, D.V., 705
Doskolovich, L.L., 801

Fanghai Zhao, 467, 745
Ferrari, R.L., 37
Filippov, V.N., 429
Fimia, A., 139
Firsov, D.A., 705
Francois, P.L., 359, 501

Galoyan, S.Kh., 695
Gamelin, J.K., 745
Ghorai, S.K., 241
Glotin, F., 171
Goncharenko, A.M., 97
Guotong Du, 467, 745
Guoying Feng, 275

Harris, J.S., Jr., S953
Heinemann, S., 527
Henry, W.M., 409
Hesselink, L., S611
Hinkov, I., 195
Hinkov, V., 195
Hong, J., S551
Hong, M., 745
Huang, J., 369
Huang, T.C., S899
Huey-Min Wang, 207
Humbach, O., S865
Hutchings, D.C., S965

Indik, R., 675
Ivanov, L., 201

Jager, D., S865
Jaroszynski, D.A., 171
Jones, D.R., 261
Jong Hyun Kim, 853
Jong-Jean Kim, 853

Kar, A.K., 171
Kendall, P.C., 771
Khonina, S.N., 801
Khurgin, J., 451, S917
Koch, S.W., 675
Kochegarov, Yu.V., 705
Kotlyar, V.V., 801
Kotov, O.I., 429
Kukushkin, V.G., 97
Kwark, Y.H., 699

Larkins, E.C., S865
Le Boudec, P., 359, 501
Le Flohic, M., 359
Le Gall, H., 695

Lederer, F., 185
Lehmeier, H.J., 317, 815
Li, E.H., 399
Li, S., S917
Liberman, V.S., 231
Likamwa, P., S965
Lin, J., 745
Little, C.E., 261, 483
Logvin, Yu.A., 97
Lord, S.M., S953
Love, J.D., 409

Maaza, M., 695
Magni, V., 489
Mahon, C.J., S885
Maitland, A., 261, 483
Makino, T., 473
Mannaerts, J.P., 745
Manolova, A., 177
Martinez-Herrero, R., 423
McInturff, D.T., 699
Mehnert, A., 527
Mejias, P.M., 423
Merveille, C., 171
Micallef, J., 399
Miller, A., S965
Miller, D.A.B., S965
Minkovski, N., 201
Mirtchev, T., 201
Miyaji, A., 297
Moloney, J.V., 63, 675
Moretti, A.L., S965
Murayama, S., 311
Murdin, B.N., 171
Murti, Y.V.G.S., 723
Muschall, R., 185

Natcheva, E., 177
Nenchev, M., 789
Nikolayev, V.M., 429
Nikolov, I., 177
Nikolsky, I.V., 801
Ning Hua Zhu, 57, 517

Obeidat, A., S917
Ollikainen, O., S569
Ooki, H., S587
Ortega, J.-M., 171

Panajotov, K.P., 391
Pangelova, N., 177
Parry, G., S935
Pascual, I., 139

Peng, G.D., 147, 409
Penzkofer, A., 1, 317, 815
Petrova, T., 177
Pettit, G.D., 699
Peuser, P., 527
Pezeshki, B., S953
Philip, J., 157
Pidgeon, C.R., 171
Pogossian, S.P., 417, 695
Polloni, R., 271, 859
Prasada Rao, T.A., 157
Prazeres, R., 171
Psaltis, D., S597

Ralph, S.E., 699
Ralston, J.D., S865
Rebane, A., S569
Rebane, K.K., S569
Ren Ming Wang, 57
Rivers, A.W., S935
Roberts, J.S., S935
Rowland, D., 163
Ru, P., 675
Rustamov, F.A., 351
Rzhanov, Yu.A., 63

Samson, A.M., 97
Sanchez, F., 359, 501
Sato, T., 311
Satpathi, A., 241
Schmidt-Hattenberger, C., 185
Schmitt, N.P., 527
Seeds, A.J., 219
Shug-June Hwang, 207
Simon, H.J., S925
Snelling, M.J., S965
Soifer, V.A., 801
Som, S.C., 241
Srobar, F., 27
Stafeev, V.I., 705
Stair, K.A., S965
Stephan, G.M., 359, 501
Stern, M.S., 771
Stohr, A., S865
Stoykova, E., 789
Sundararajan, G., 723
Suzuki, K., 297
Svelto, O., 489
Szatmari, S., 733

Taniguchi, H, 751
Tanimoto, A., 297
Tanyer, S.G., 105
Taylor, G.W., 123
Thibeault, B.J., S885
Tong, F., 699
Trutschel, U., 185

Uspleniev, G.V., 801

Vavra, G., 733
Vijaya, R., 723
Vijayaraj, T.A., 723
Vorobjev, L.E., 705

Wang, S., 745
Wang, Y., S925
Webb, S., 483
Weber, H., 423
Wei-Yu Lee, 207
Weidner, P., 1
Weiss, B.L., 399
Wickman, R.W., S965
Wingen, G., S865
Wong, P.C., 699
Wu, B., 745

Xiaobo Zhang, 467, 745

Yang, Z.Y., 845

Zafirova, B.S., 391
Zel'Dovich, B.Ya., 231
Zhao, A.P., 845
Zi Qian Wang, 517
Zouganeli, P., S935
Zumkley, S., S865

Subject Index to Volume 25 (1993)

aberrations, 275
acousto-optical devices, 195
adaptive optics, 177
adaptive systems, S551
aluminium compounds, 37, 399, 467, 845, S935, S953
ammonium compounds, 853
antenna phased arrays, 219
antireflection coatings, S917, S953
approximation theory, 27, 57, 351, 751
atomic spectra, 79

barium compounds, 517, 545
bending, 105
birefringence, 429, 489
bismuth compounds, 241

carrier mobility, 675
chemical interdiffusion, 845
claddings, 409
coherent antiStokes Raman scattering, 317
colour centre lasers, 63
content-addressable storage, S569, 761
copper, 751
copper compounds, 261, 483
crosstalk, 207, 255, 761
crystal growth from melt, S611
cyclotron resonance, 705

delay lines, 219
deuterium compounds, 317
differential equations, 113
diffraction gratings, 231, 241, 473, 801
diffusion in solids, 57, 399
directional couplers, 207, 255
distributed feedback lasers, 473
dye lasers, 733

eigenvalues and eigenfunctions, 845
electric resistance, 745
electro-optical devices, 517, S865, S885, S899, S917, S935, S953, S965
electro-optical effects, S925
electroabsorption, S865, S935, S953
electron beam applications, 451
electroreflectance, S925, S953
encoding, S611
erbium, 359, 501
error correction, S569
excimer lasers, 297
excitons, S965

feedback, 27, 761
fibre lasers, 359, 501
field effect integrated circuits, 699
finite difference methods, 517
finite element analysis, 845
flash lamps, 545
focusing, 801
Fourier transform optics, 761
free electron lasers, 171

gallium arsenide, 37, 399, 467, 675, 699, 745, 845, S865, S935, S953
gas lasers, 261, 483, 751
geometrical optics, 241

high-frequency discharges, 483
high-speed optical techniques, 1, 317, 723, 815, S885
holographic gratings, 139, 351, S611
holographic storage, S551, S597, S611, 761
hot carriers, 705

III-V semiconductors, 37, 171, 399, 467, 675, 699, 745, 845, S865, S935, S953
image recognition, S551
indium antimonide, 171, 705
indium compounds, 699, S865, S953
infrared detectors, 699
infrared spectra of inorganic solids, 171
integrated optics, 57, 195, 207, 255, 391, 417, 517, 771, S865, S899, S953, S965
integrated optoelectronics, 219, 699, S885
ion exchange, 195
iterative methods, 57

Kerr electro-optical effect, 157
krypton compounds, 297

Lamb shift, 79
laser accessories, 171, 705, 789, 801
laser beam applications, 297
laser beams, 1, 171, 271, 275, 317, 423, 789, 801
laser cavity resonators, 63, 359, 489, 527, 545, 705, 733, 789
laser frequency stability, 79
laser mode locking, 1
laser modes, 489, 705, 745
laser theory, 27, 63, 369, 423, 451, 473, 509, 527, 675, 733, 751
laser transitions, 705
laser tuning, 527, 705
lenses, 801
light absorption, 409
light coherence, 63, 423
light interference, 789
light interferometry, 177
light polarisation, 97, 105, 429
light propagation, 275, 423
liquid crystal phase transformations, 157
lithium compounds, 57, 195

macromolecular configurations, 723
matrix algebra, 473
Maxwell equations, 351
metal-semiconductor-metal structures, 699
mirrors, 663, 705, 789, S953
molecular beam epitaxial growth, S953
molecular beams, 79
molecular excited states, 733
molecular rotational-vibrational energy transfer, 113
molecular spectra, 79
molecular spectral line breadth, 317
multiphoton processes, 815
multiwave mixing, 201, 663, 723

nematic liquid crystals, 157
neodymium, 271, 489, 545
nonlinear optical susceptibility, 157, 723, 853
nonlinear optics, 63, 207, 241, 489, S551

optical bistability, 663, S935
optical constants, 57, 171
optical correlation, 311
optical couplers, 163, 185, 207, 255, 391, 771
optical design techniques, 147, 761, S865, S885
optical disc storage, S587
optical elements, 801
optical fibre testing, 201
optical fibre theory, 105, 147, 163, 185, 391, 409
optical fibres, 1, 429
optical filters, 163, 789
optical frequency conversion, 231, 311
optical glass, 815
optical harmonic generation, 231, 317, 545, 853
optical hole burning, S569
optical images, 241
optical information processing, 177
optical interconnections, 699, S885
optical Kerr effect, 185, 509
optical links, 219, 429
optical losses, 105, 359, 409, 509, S899, S935, S953
optical modulation, 1, 219, 429, 517, 815, S865, S885, S899, S917, S925, S953, S965
optical neural nets, S551, S569
optical parametric amplifiers, 815
optical parametric oscillators, 815
optical polymers, 723
optical prisms, 695, S925
optical pumping, 27, 317, 359, 489, 501, 545, 663, 815
optical receivers, 699
optical resolving power, S597
optical resonators, 123, 163, 663
optical saturable absorption, 113, 733
optical saturation, 147, 369, 451
optical self-focusing, 97, 317, 815
optical squeezing, 311
optical storage, S569
optical switches, 255, S865
optical systems, 423
optical waveguide theory, 57, 207, 417, 517, 771
optical waveguides, 195, 695, S899, S965
optical windows, 745
organic compounds, 271
oscillations, 483, 663
oscillators, 509

parallel architectures, S551, S569
partial differential equations, 351
phase modulation, 1
photoconductivity, S965
photodetectors, 123
photographic emulsions, 139, 177
photographic process, 139, 177
photon echo, S569
photorefractive effect, 207, 231, S551, S611, 663
photorefractive materials, 241, 351
photoresists, 297
population inversion, 451, 509
potassium compounds, 545, 853

Q-switching, 271, 545
quantum interference phenomena, 37
quantum optics, 859
quartz, S925

radiation pressure (atoms), 79
radiation pressure (molecules), 79
Raman spectra, 311
random noise, 509
ray tracing, 275
Rayleigh scattering, 853
reflectivity, 467, 789
refractive index, 57, 399, 417, 517, 675, 695, 771, S865, S899
refractive index measurement, 695
resonant tunnelling devices, 37
reviews, 79, 219, 297, 369
Runge-Kutta methods, 113

SEEDs, S935
semiconductor device models, 123, 369, 675
semiconductor growth, S953
semiconductor laser arrays, 467
semiconductor lasers, 27, 369, 451, 467, 473, 675, 705, 745
semiconductor quantum wells, 37, 123, 399, 845, S865, S917, S935, S953, S965
semiconductor switches, 37
signal processing, 219
silver, S925
silver compounds, 139, 177
solid lasers, 271, 489, 527, 545, 815
solid-state microwave devices, 219
spatial filters, 177
spectral analysers, 163
spectral line breadth, 1, 473, 527, 545, 675
Stark effect, S865
stimulated emission, 733
stimulated Raman scattering, 1, 317, 815
strontium compounds, 517
subcarrier multiplexing, 219
submillimetre wave devices, 705
substrates, S953
sulphur compounds, 113
superradiance, 451
surface plasmons, S925

thermionic electron emission, S965
time resolved spectroscopy, 79
titanium, 57, 195
tuning, 163, 789
tunnelling, 37
two-photon processes, 271, 859
two-photon spectra, 171
two-photon spectroscopy, 79

variational techniques, 57
video signals, 429
VLSI, 297

waveguide theory, 37
wavelength division multiplexing, S597, S611